

Application No. 10/053,720
Amendment dated June 1, 2004
Reply to Final Office Action mailed on January 29, 2004

Amendments to the Claims:

Please amend claims 1, 4, 5, 6, 7 and 24.

Please add new claim 25.

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (currently amended). An apparatus for reclaiming concrete, comprising:

a hopper with water means for introducing water to the hopper;

a separator having an inlet for receiving material from the hopper into the separator and a passageway for axially flowing the material therethrough;

a first outlet for removing material from the separator;

a second outlet for removing material from the separator; and

a rotatable screen wheel positioned in the passageway of the separator having axial apertures to screen the axially flowing material by allowing material smaller than a predetermined size to pass through the screen and to flow to the second outlet and preventing material larger than a predetermined size from passing through the screen to form screened out material, the rotatable screen further being positioned so as to centrifugally direct the screened out material to the first outlet as the rotatable screen rotates.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 2 (original). The apparatus of claim 1, further comprising a pump for pumping material from the hopper to the separator.

Claim 3 (original). The apparatus of claim 1, wherein the water means includes a water pump for pumping water to the hopper.

Claim 4 (currently amended). The apparatus of claim 1, further comprising driving means for driving the rotatable screen wheel.

Claim 5 (currently amended). The apparatus of claim 1 wherein the passageway of the separator is substantially vertical and the rotatable screen wheel has a screening surface which is substantially horizontal, the rotatable screen wheel being positioned so as to centrifugally direct the screened out material towards the first outlet by flowing the material on the screening surface.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 6 (currently amended). ~~The An~~ apparatus of claim 1 for reclaiming concrete, comprising:

a hopper with water means for introducing water to the hopper;

a separator having an inlet for receiving material from the hopper and a passageway for axially flowing the material therethrough;

a rotatable screen positioned in the passageway of the separator;

a first outlet for removing material from the separator wherein the first outlet is between the inlet and the rotatable screen; and

a second outlet for removing material from the separator wherein the second outlet is downstream of the rotatable screen;

the rotatable screen being positioned in the passageway of the separator to screen the axially flowing material by allowing material smaller than a predetermined size to pass through the screen and to flow to the second outlet and preventing material larger than a predetermined size from passing through the screen to form screened out material, the rotatable screen further being positioned so as to centrifugally direct the screened out material to the first outlet as the rotatable screen rotates.

Claim 7 (currently amended). The apparatus of claim 1, wherein the rotatable screen wheel includes apertures of a predetermined size.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 8 (original). The apparatus of claim 1, further comprising a sand tank for receiving material from the second outlet of the separator.

Claim 9 (original). The apparatus of claim 8, further comprising:

a first water holding tank; and

a separator outlet line connecting the first water holding tank to the separator.

Claim 10 (original). The apparatus of claim 9, further comprising a first water holding tank outlet in the bottom section of the first water holding tank.

Claim 11 (original). The apparatus of claim 9, further comprising:

a second water holding tank; and

a first water holding tank outlet line connecting the second water holding tank to the first water holding tank.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 12 (previously amended). An apparatus for reclaiming concrete, comprising:

a hopper with water means for introducing water to the hopper;

a separator having an inlet for receiving material from the hopper;

a rotatable screen positioned in the separator;

a first outlet for removing material from the separator;

a second outlet for removing material from the separator;

a sand tank for receiving material from the second outlet of the separator.

a first water holding tank;

a separator outlet line connecting the first water holding tank to the separator;

a second water holding tank;

a first water holding tank outlet line connecting the second water holding tank to the first water holding tank;

a third water holding tank; and

a second water holding tank outlet line connecting the third water holding tank to the second water holding tank.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 13 (original). The apparatus of claim 12, further comprising:

a fourth water holding tank; and

a third water holding tank outlet line connecting the fourth water holding tank to the third water holding tank.

Claim 14 (original). The apparatus of claim 1, further including a water pump for pumping water to the separator.

Claim 15 (original). The apparatus of claim 1, further including a baffle disposed in the hopper, the baffle having an aperture of a predetermined size.

Claim 16 (cancelled).

Claim 17 (cancelled).

Claim 18 (cancelled).

Claim 19 (cancelled).

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 20 (cancelled).

Claim 21 (previously added). The apparatus of claim 12, further comprising a pump for pumping material from the hopper to the separator.

Claim 22 (previously added). The apparatus of claim 12, wherein the water means includes a water pump for pumping water to the hopper.

Claim 23 (previously added). The apparatus of claim 12, further comprising driving means for driving the rotatable screen.

Claim 24 (currently amended). The apparatus of claim 1 wherein the screen wheel is positioned in the passageway so as not to allow the material to pass through the passageway without being screened.

Application No. 10/053,720

Amendment dated June 1, 2004

Reply to Final Office Action mailed on January 29, 2004

Claim 25 (new). An apparatus for reclaiming concrete, comprising:

a separator having an inlet for receiving material into the separator and a passageway for axially flowing the material therethrough;

a rotatable screen positioned in the passageway of the separator;

a first outlet for removing material from the separator wherein the first outlet is between the inlet and the rotatable screen; and

a second outlet for removing material from the separator wherein the second outlet is downstream of the rotatable screen;

the rotatable screen being positioned in the passageway of the separator to screen the axially flowing material by allowing material smaller than a predetermined size to pass through the screen and to flow to the second outlet and preventing material larger than a predetermined size from passing through the screen to form screened out material, the rotatable screen further being positioned so as to centrifugally direct the screened out material to the first outlet as the rotatable screen rotates.